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*** It is now 8/13/2008 6:53:55 PM ***

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- CLAIMS/Current Patent Legal Status (File 123)
- CLAIMS/U.S. Patents (File 340)
- Chinese Patent Abstracts in English (File 344)
- Derwent Patents Citation Index (File 342)
- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO - Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)
- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN - U.S. Federal (File 226)

DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

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*** ANNOUNCEMENTS ***

"Thomson File Histories" are now available directly through Dialog in selected patent and trademark files. Combined with the comprehensive patent and trademark information on Dialog, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in one of the patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need. See HELP FILEHIST for more information about how to use the link and a list of files that contain the link.

The 2008 EMTREE Thesaurus has been added to EMBASE (Files 72, 73, 772, and 972)

RESUMED UPDATING

***File 120, U.S. Copyrights

RELOADS COMPLETED

***File 50, CAB Abstracts
***File 162, Global Health
***File 342, Patents Citation Index
***File 227, TRADEMARKSCAN(R) - Community Trademarks

FILES RENAMED

***File 321, PLASPEC now known as Plastic Properties
Database

FILES REMOVED

***Files 476/Financial Times & 473/Financial Times
Abstracts
***Files 359,959,804, Chemical Economics Handbook
***Files 360,960, Specialty Chemicals Update Program

>>>For the latest news about Dialog products,
services, content<<<
>>>and events, please visit What's New from Dialog
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>>><http://www.dialog.com/whatsnew/>. You can find
news about <<<
>>>a specific database by entering HELP NEWS <file
number>. <<<

? Help Off Line

* * *

Connecting to sahmed - Dialog - 291839
Connected to Dialog via SMS003061345

? b

9,15,16,20,47,75,80,88,98,112,141,148,160,275,264,331
, 340, 350, 351,
352,369,370,484,553,570,608,620,613,621,623,624,634,6
35,636,647,696,674, 324, 344, 348, 349,
371,810,813,587

>>>W: 350 is unauthorized

351 is unauthorized

352 is unauthorized

3 of the specified files are not available

[File 9] Business & Industry(R) Jul/1994-2008/Aug 06
(c) 2008 The Gale Group. All rights reserved.

[File 15] ABI/Inform(R) 1971-2008/Aug 13
(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 16] Gale Group PROMT(R) 1990-2008/Aug 05
(c) 2008 The Gale Group. All rights reserved.

**File 16: Because of updating irregularities, the banner and the update (UD=) may vary.*

[File 20] Dialog Global Reporter 1997-2008/Aug 13
(c) 2008 Dialog. All rights reserved.

[File 47] Gale Group Magazine DB(TM) 1959-2008/Jul 30
(c) 2008 The Gale group. All rights reserved.

[File 75] TGG Management Contents(R) 86-2008/Jul W4
(c) 2008 The Gale Group. All rights reserved.

[File 80] TGG Aerospace/Def.Mkts(R) 1982-2008/Aug 05
(c) 2008 The Gale Group. All rights reserved.

[File 88] Gale Group Business A.R.T.S. 1976-2008/Aug 12
(c) 2008 The Gale Group. All rights reserved.

**File 88: UD's are being adjusted to reflect currency. All data is present.*

[File 98] General Sci Abs 1984-2008/Jul
(c) 2008 The HW Wilson Co. All rights reserved.

[File 112] UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media. All rights reserved.

[File 141] Readers Guide 1983-2008/Jun
(c) 2008 The HW Wilson Co. All rights reserved.

[File 148] Gale Group Trade & Industry DB 1976-2008/Aug 12
(c)2008 The Gale Group. All rights reserved.

**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 160] Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group. All rights reserved.

[File 275] Gale Group Computer DB(TM) 1983-2008/Aug 04
(c) 2008 The Gale Group. All rights reserved.

[File 264] DIALOG Defense Newsletters 1989-2008/Aug 13
(c) 2008 Dialog. All rights reserved.

[File 331] Derwent WPI First View/UD=\$F331UD1
(c) 2008 The Thomson Corp. All rights reserved.

[File 340] CLAIMS(R)/US Patent 1950-08/Aug 07
(c) 2008 IFI/CLAIMS(R). All rights reserved.

[File 369] New Scientist 1994-2008/Jun W5
(c) 2008 Reed Business Information Ltd. All rights reserved.

[File 370] Science 1996-1999/Jul W3

(c) 1999 AAAS. All rights reserved.

**File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 484] Periodical Abs Plustext 1986-2008/Jul W3

(c) 2008 ProQuest. All rights reserved.

[File 553] Wilson Bus. Abs. 1982-2008/Aug

(c) 2008 The HW Wilson Co. All rights reserved.

[File 570] Gale Group MARS(R) 1984-2008/Aug 05

(c) 2008 The Gale Group. All rights reserved.

[File 608] KR/T Bus.News. 1992-2008/Aug 11

(c)2008 Knight Ridder/Tribune Bus News. All rights reserved.

[File 620] EIU:Viewswire 2008/Aug 12

(c) 2008 Economist Intelligence Unit. All rights reserved.

[File 613] PR Newswire 1999-2008/Aug 13

(c) 2008 PR Newswire Association Inc. All rights reserved.

**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 621] Gale Group New Prod.Annou.(R) 1985-2008/Jul 24

(c) 2008 The Gale Group. All rights reserved.

[File 623] Business Week 1985-2008/Aug 13

(c) 2008 The McGraw-Hill Companies Inc. All rights reserved.

[File 624] McGraw-Hill Publications 1985-2008/Aug 13

(c) 2008 McGraw-Hill Co. Inc. All rights reserved.

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 634] San Jose Mercury Jun 1985-2008/Jul 10

(c) 2008 San Jose Mercury News. All rights reserved.

[File 635] Business Dateline(R) 1985-2008/Aug 13

(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 636] Gale Group Newsletter DB(TM) 1987-2008/Aug 05

(c) 2008 The Gale Group. All rights reserved.

[File 647] CMP Computer Fulltext 1988-2008/Jul W3

(c) 2008 CMP Media, LLC. All rights reserved.

[File 696] DIALOG Telecom. Newsletters 1995-2008/Aug 13

(c) 2008 Dialog. All rights reserved.

[File 674] Computer News Fulltext 1989-2006/Sep W1

(c) 2006 IDG Communications. All rights reserved.

**File 674: File 674 is closed (no longer updates).*

[File 324] GERMAN PATENTS FULLTEXT 1967-200832
(c) 2008 UNIVENTIO/THOMSON. All rights reserved.

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office. All rights reserved.

[File 348] EUROPEAN PATENTS 1978-200832
(c) 2008 European Patent Office. All rights reserved.

[File 349] PCT FULLTEXT 1979-2008/UB=20080731|UT=20080724
(c) 2008 WIPO/Thomson. All rights reserved.

[File 371] French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv. All rights reserved.

[File 810] Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire . All rights reserved.

[File 813] PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc. All rights reserved.

[File 587] Jane`s Defense&Aerospace 2008/Aug W1
(c) 2008 Jane`s Information Group. All rights reserved.

?

? s au=(CHEN WENGE or CHEN, WENGE or CHEN W? or
CHEN, W?)

>>>W: One or more prefixes are unsupported
or undefined in one or more files.

12 AU=CHEN WENGE

0 AU=CHEN, WENGE

4346 AU=CHEN W?

1781 AU=CHEN, W?

S1 6127 S AU=(CHEN WENGE OR CHEN, WENGE OR
CHEN W? OR CHEN, W?)

? s au=(CHEN HOLLY or CHEN, HOLLY or CHEN H? or
CHEN, H?)

>>>W: One or more prefixes are unsupported
or undefined in one or more files.

10 AU=CHEN HOLLY

0 AU=CHEN, HOLLY

6145 AU=CHEN H?

2872 AU=CHEN, H?

S2 9017 S AU=(CHEN HOLLY OR CHEN, HOLLY OR
CHEN H? OR CHEN, H?)

? s au=(LIU KUO-HUI or LIU, KUO-HUI or LIU K? or
LIU, K?)

>>>W: One or more prefixes are unsupported
or undefined in one or more files.

15 AU=LIU KUO-HUI

0 AU=LIU, KUO-HUI

1774 AU=LIU K?

966 AU=LIU, K?

S3 2740 S AU=(LIU KUO-HUI OR LIU, KUO-HUI OR
LIU K? OR LIU, K?)

? s au=(SOON SHIH or SOON, SHIH or SOON S? or SOON
S?)

>>>W: One or more prefixes are unsupported
or undefined in one or more files.

0 AU=SOON SHIH

0 AU=SOON, SHIH

93 AU=SOON S?

93 AU=SOON S?

S4 93 AU=(SOON SHIH OR SOON, SHIH OR SOON
S? OR SOON S?)

? s au=(ZHOU BEI or ZHOU, BEI or ZHOU B? or ZHOU,
B?)

>>>W: One or more prefixes are unsupported
or undefined in one or more files.

2 AU=ZHOU BEI

1 AU=ZHOU, BEI

565 AU=ZHOU B?

197 AU=ZHOU, B?

S5 762 S AU=(ZHOU BEI OR ZHOU, BEI OR ZHOU
B? OR ZHOU, B?)

?

? s s1 or s2 or s3 or s4 or s5

6127 S1

9017 S2

2740 S3

93 S4

762 S5
S6 18635 S S1 OR S2 OR S3 OR S4 OR S5

? s s6 not py>2003

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18635 S6
60649579 PY>2003
S7 8410 S S6 NOT PY>2003

? s s7 and VRF

8410 S7
2004 VRF
S8 0 S S7 AND VRF

? S s7 and MPLS

8410 S7
65644 MPLS
S9 5 S S7 AND MPLS

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>>>W: Duplicate detection is not supported for File 112.

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Duplicate detection is not supported for File 324.

Duplicate detection is not supported for File 344.

Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 371.

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S10 5 RD (UNIQUE ITEMS)

? TYPE S10/3,K/ALL

10/3K/1 (Item 1 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

PCT FULLTEXT

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00979531

VIRTUAL PRIVATE NETWORK OVER ASYNCHRONOUS TRANSFER MODE
RESEAU PRIVE VIRTUEL SUR MODE DE TRANSFERT ASYNCHRONE (ATM)

Patent Applicant/Patent Assignee:

- SBC TECHNOLOGY RESOURCES INC; 9505 Arboretum Boulevard, Austin, TX 78759
US; US(Residence); US(Nationality)

Legal Representative:

- BERNSTEIN Bruce H(et al)(agent)
Greenblum & Bernstein, P.L.C., 1941 Roland Clarke Place, Reston, VA 20191; US;

	Country	Number	Kind	Date
Patent	WO	200309528	A1	20030130
Application	WO	2002US19819		20020716
Priorities	US	2001907606		20010719

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 8322

Detailed Description:

...LAN)

Layer 2 Tunneling Protocol (L2TP)

Lightweight Directory Access Protocol (LDAP)

Multi-Protocol Label Switching (MPLS)

Network Selection Access Point (NSAP)

Peripheral Component Interface (PCI)

Point-to-Point Protocol (PPP)

PPP...utilizing the well-known Internet Protocol (IP) and a new standard Multi-Protocol

Label Switching (MPLS). MPLS is currently an evolving Internet Engineering Task Force (IETF) standard that has not been widely deployed. Furthermore, the use of MPLS does not leverage the currently provisioned ATM networks. In addition, by launching SVCs from

10/3K/2 (Item 2 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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00883394

DUAL SWITCH ARCHITECTURE FOR MIXED PACKET AND CIRCUIT
TRANSPORTS OVER SONET AND SDH AND DWDM
ARCHITECTURE DE COMMUTATION DOUBLE, DESTINEE AUX TRANSPORTS
PAR PAQUETS/CIRCUITS MELANGES SUR RESEAU OPTIQUE
SYNCHRONE(SONET)/RESEAU HIERARCHIQUE NUMERIQUE
SYNCHRONE(SDH)/RESEAU DE MULTIPLEXAGE EN LONGUEUR D'ONDE
DENSE(DWDM)

Patent Applicant/Patent Assignee:

- GEYSER NETWORKS INC; 555 Del Rey Avenue, Sunnyvale, CA 94085
US; US(Residence); US(Nationality)
- CHEN Wen-lung; 10455 Creston Drive, Los Altos, CA 94024
US; US(Residence); US(Nationality)
- LEE Gordon; 20567 Russell Lane, Saratoga, CA 95070
US; US(Residence); US(Nationality)
- HUANG Kevin; 4656 Clarendon Drive, San Jose, CA 95129
US; US(Residence); US(Nationality)
- CHEN Wen-lung... ;
;;

Patent Applicant/Inventor:

- CHEN Wen-lung
10455 Creston Drive, Los Altos, CA 94024; US; US(Residence); US(Nationality);
- LEE Gordon
20567 Russell Lane, Saratoga, CA 95070; US; US(Residence); US(Nationality);
- HUANG Kevin
4656 Clarendon Drive, San Jose, CA 95129; US; US(Residence); US(Nationality);
- CHEN Wen-lung...
;;;

Legal Representative:

- GUZMAN Leonard T(et al)(agent)
McDermott, Will & Emery, 2700 Sand Hill Road, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200217580	A1	20020228
Application	WO	2001US26567		20010823
Priorities	US	2000228008		20000823
	US	2001272793		20010301

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 3306

Detailed Description:

...datagram traffic leveraging the research and experience of ATM has resulted in the standardization of

MPLS (See Internet Engineering Task Force. Multiprotocol Label Switching Architecture. IETF Draft Document. August, 1999 and

<http://www.ietf.org/internetdrafts/draft-ietf-mpls-arch.txt>). This work allows network devices to employ a standards-based method by which...on the real traffic on this dual switch architecture.

Dual Switch Architecture to support Mixed MPLS Switching and Circuit Connection

Combining the dual switch architecture with the dynamic bandwidth allocation, MPLS-based switching/routing architecture can be well supported. Basically all MPLS packets are switched/routed by the packet switch engine to forward packets according to the... ..setup on the SONET ring through all the virtual concatenated logical connections.

In addition, the MPLS label distribution protocol (LDP) with bandwidth reservation capability can be used to dynamically increase/decrease...very flexibly be used to adjust the bandwidth allocation efficiently. For more details about the MPLS support, please refer to co-pending and commonly owned U.S. Patent Application No. (Number...

10/3K/3 (Item 3 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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00883363

SYSTEM AND METHOD OF VIRTUALLY CONCATENATING VT1.5s ANS STS-1s
OVER SONET AND SDH AND WDM

SYSTEME ET PROCEDE DE CONCATENATION VIRTUELLE DE VT1.5S ET STS-1S
SUR UN RESEAU OPTIQUE SYNCHRON (SONET), SUR UN RESEAU
HIERARCHIQUE NUMERIQUE SYNCHRON (SDH) ET SUR UN RESEAU A
MULTIPLEXAGE DE LONGUEUR D'ONDES (WDM)

Patent Applicant/Patent Assignee:

- GEYSER NETWORKS INC; 555 Del Rey Avenue, Sunnyvale, CA 94085
US; US(Residence); US(Nationality)
- LEE Gordon; 20567 Russell Lane, Saratoga, CA 95070
US; US(Residence); US(Nationality)
- HUANG Kevin; 4656 Clarendon Drive, San Jose, CA 95129
US; US(Residence); US(Nationality)
- CHEN Wen-Lung; 10455 Creston Drive, Los Altos, CA 94024
US; US(Residence); US(Nationality)
- ...US(Nationality);
;;
- CHEN Wen-Lung... ;
;;

Patent Applicant/Inventor:

- LEE Gordon
20567 Russell Lane, Saratoga, CA 95070; US; US(Residence); US(Nationality);
- HUANG Kevin
4656 Clarendon Drive, San Jose, CA 95129; US; US(Residence); US(Nationality);
- CHEN Wen-Lung
10455 Creston Drive, Los Altos, CA 94024; US; US(Residence); US(Nationality);
- ...US(Nationality)
;;;
- CHEN Wen-Lung...
;;;

Legal Representative:

- GUZMAN Leonard T(et al)(agent)
McDermott, Will & Emery, 3150 Porter Drive, Palo Alto, CA 94304-1212; US;

	Country	Number	Kind	Date
Patent	WO	200217546	A2-A3	20020228
Application	WO	2001US26557		20010823
Priorities	US	2000228008		20000823
	US	2001272793		20010301

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 4864

Detailed Description:

...datagram traffic leveraging the research and experience of ATM has resulted in the standardization of MPLS (See Internet Engineering Task Force.

In

1.

Multiprotocol Label Switching Architecture. IETF Draft Document. August, 1999 and <http://www.ietf.org/internet-drafts/draft-ietf-mpls-arch.txt>).

This work allows network devices to employ a standards-based method by which...

10/3K/4 (Item 4 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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00883362

SYSTEM AND METHOD OF NXSTS-1 BANDWIDTH SHARING AND RING
PROTECTION

SYSTEME ET PROCEDE DE PARTAGE DE LA LARGEUR DE BANDE NXSTS-1 ET
DE PROTECTION D'ANNEAU

Patent Applicant/Patent Assignee:

- GEYSER NETWORKS INC; 555 Del Rey Avenue, Sunnyvale, CA 94085
US; US(Residence); US(Nationality)

Legal Representative:

- GUZMAN Leonard T(et al)(agent)
McDermott, Will & Emery, 2700 Sand Hill Road, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200217545	A2-A3	20020228
Application	WO	2001US26542		20010823
Priorities	US	2000228008		20000823
	US	2001272793		20010301

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 3609

Detailed Description:

...datagram traffic leveraging the research and experience of ATM has
resulted in the standardization of MPLS (See Internet Engineering Task
Force. Multiprotocol Label Switching Architecture. IETF Draft Document.

August, 1999 and...

10/3K/5 (Item 5 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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00883361

DYNAMIC BANDWIDTH ALLOCATION (DBA) PROTOCOL

PROTOCOLE D'ATTRIBUTION DE LARGEUR DE BANDE DYNAMIQUE

Patent Applicant/Patent Assignee:

- GEYSER NETWORKS INC; 555 Del Rey Avenue, Sunnyvale, CA 94085
US; US(Residence); US(Nationality)
- LEE Gordon; 20567 Russell Lane, Saratoga, CA 95070
US; US(Residence); US(Nationality)
- HUANG Kevin; 4656 Clarendon Drive, San Jose, CA 95129
US; US(Residence); US(Nationality)
- CHEN Wen-lung; 10455 Creston Drive, Los Altos, CA 94024
US; US(Residence); US(Nationality)
- LEE Alan; 11594 Oak Spring Court, Cupertino, CA 95014
US; US(Residence); US(Nationality)
- ...US(Nationality);
;;
- CHEN Wen-lung... ;
;;

Patent Applicant/Inventor:

- LEE Gordon
20567 Russell Lane, Saratoga, CA 95070; US; US(Residence); US(Nationality);
- HUANG Kevin
4656 Clarendon Drive, San Jose, CA 95129; US; US(Residence); US(Nationality);
- CHEN Wen-lung
10455 Creston Drive, Los Altos, CA 94024; US; US(Residence); US(Nationality);
- LEE Alan
11594 Oak Spring Court, Cupertino, CA 95014; US; US(Residence); US(Nationality);
- ...US(Nationality)
;;;
- CHEN Wen-lung...
;;;

Legal Representative:

- GUZMAN Leonard T(et al)(agent)
McDermott, Will & Emery, 2700 Sand Hill Road, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200217544	A2-A3	20020228
Application	WO	2001US26535		20010823
Priorities	US	2000228008		20000823
	US	2001272793		20010301

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Publication Language: English
Filing Language: English
Fulltext word count: 7095

? s vrf and RT and MPLS
2004 VRF
335367 RT
65644 MPLS
S11 26 S VRF AND RT AND MPLS

? s s11 not py>2003

Processing

Processing

Processing

26 S11
60649579 PY>2003
S12 3 S S11 NOT PY>2003

? rd

>>>W: Duplicate detection is not supported for File
112.

Duplicate detection is not supported for File 331.

Duplicate detection is not supported for File 340.

Duplicate detection is not supported for File 324.

Duplicate detection is not supported for File 344.

Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 371.

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S13 3 RD (UNIQUE ITEMS)

? TYPE S13/3,K/ALL

13/3K/1 (Item 1 from file: 349) [Links](#)

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00976180

BROADBAND COMMUNICATIONS

COMMUNICATIONS A LARGE BANDE

Patent Applicant/Patent Assignee:

- IMAGINE BROADBAND LIMITED; Carmelite, 50 Victoria Embankment, Blackfriars,
London EC4Y 0DX

GB; GB(Residence); GB(Nationality)
(For all designated states except: US)

- MCKEOWN Jean-Christophe; 18, Domaine de Snanque, F-06210 Mandelieu
FR; FR(Residence); FR(Nationality)
(Designated only for: US)
- CHABRIER Henri; Imagine Broadband Sarl, 1230, route de la Mer, F-06410 Biot
FR; FR(Residence); FR(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

- MCKEOWN Jean-Christophe
18, Domaine de Snanque, F-06210 Mandelieu; FR; FR(Residence); FR(Nationality);
(Designated only for: US)
- CHABRIER Henri
Imagine Broadband Sarl, 1230, route de la Mer, F-06410 Biot; FR; FR(Residence);
FR(Nationality); (Designated only for: US)

Legal Representative:

- KAZI Ilya(et al)(agent)
Mathys & Squire, 100 Grays Inn Road, London WC1X 8AL; GB;

	Country	Number	Kind	Date
Patent	WO	200305195	A2	20030116
Application	WO	2002GB3074		20020703
Priorities	EP	2001401767		20010703
	WO	2002GB1461		20020326
	WO	2002GB2372		20020522

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
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Detailed Description:

...According to one embodiment, the broadband network may be, but is not limited to, an MPLS (MultiProtocol Label Switching) or an IPSec (IP Security) network and the service may be provisioned...device or supplied specialist software.

According to one embodiment, the broadband network may be an MPLS or an IPSec network. The user device may be provisioned via a Virtual Private Network...necessary steps for a variety of hardware connections (cable, dsl modems of varying types, 5 MPLS and VPN connections) may be accommodated more easily without requiring complex dedicated programming for each... environment of this type is described in "Integration Solutions Guide for Managed Broadband Access Using MPLS VPNs for MultiService Operators", published by Cisco on the Internet at.

<http://www.cisco.co.uk>...alarm analysis after a service has been provisioned and is in use.

Application to VPN MPLS

The systems and methods of the provisioning system and methods described herein will now be... ..description of an Internet Infrastructure Provider (IIP) specific Virtual Private Network (VPN) Multiprotocol Label Switching (MPLS) provisioning system. This system is described by way of example only and ...the initial scenario for this example SyStCY11, j1h.)SO-ated in Figure 5, the core MPLS network has been Set-LIP with 3 Points of Presence (POPS) 502, 504, 506: A11tibes PE) router 508 with an ISEA VPN 510.

o PE3 508 has a VRF (a VPN Routing and Forwarding device) for Customer A's Antibes/St Claude site 512... ..routers 516, 518. ISEA 520 is connected to both PE routers.

PE2 516 has a VRF for Customer A's Sophia Antipolis/Les Gen&ts site 522 connected via Fast Ethernet has one PE router 526 with no ISEA MPLS.

o PEJ 526 has a VRF for Central ISP services site 528 connected via Fast Ethernet to a C 1 700...SUrmarises an example network- topology. In this example, all actions are carried out through the MPLS console/Graphical User Interface (GUI).

I . A new customer called "Customer B" is created using...server and management VPN. In this example, all actions can be carried out through the MPLS console/GUI.

1. A new secondary site called "Sophia Antipolis ADSL` 704 is added for... ..ADSL indicates an Asynchronous Digital Subscriber Line).

2. An interface (ATM sub interface) in a VRF is provisioned on the PE router 51 8 for the PE-CE link with ISEA...added in above may be modified according to the following example procedure.

I . In the MPLS console/GUT, browse to the PE-CE link edition screen.

2. Edit the Class of...ADSU 804 is added for Customer B.

2. An interface (ATM Sub interface) JIn a VRF is provisioned oil tile PE router 518 for the

PE-CE link with ISEA monitoring...over the network.

A further feature of the system described above may be the VPN MPLS network manager. Using the network view of MPLS network manager, it may be possible to browse, for example: PAD (PACA), POP (Antibes), PE...by clicking on a button)

CEF statistics (show ip cef summary)

The customer view of MPLS network manager may be used to browse, for example: Customers (B), VPNs (VPN B), PE...monitoring preferably returns to green status in less than 1 minute.

Audit & accounting

Using ISBA MPLS, examples of statistics that may be gathered for each VPN include.

Total uploads/downloads for...user. This service may comprise a number of different VPN technologies, such as Layer 3 MPLS (Multi-Protocol Label Switching), L2 IPSec (IP Security) and Layer 2 MPLS (Martini and Kompella). This may allow the ISA to be integrated easily into existing systems...range of protocols (for example, HTTP, ICMP, SMTP and POP). Agents may be implemented for MPLS and IPSec-based VPNs as well as Layer 2 MPLS (Martini and Kompella). Agents are preferably implemented to run on standard PCs running, for example...network monitoring and reporting capabilities.

According to a preferred implementation of the system, once the MPLS PE-CE link or the IPSec tunnel is provisioned by L3 VPN, the operator can...to monitor multiple VRFs (VPN Routing/Forwarding instances) on a PE. The switch from one VRF to another may be implemented immediately and, preferably no configuration manipulation on the PE is...A VPN Network Manager may also be provided to monitor, report and generate alarms for MPLS and IPSec network performances. The VPN Network Manager may operate by polling the groups of...defined for the VPN. The L3 VPN Network Manager preferably monitors metrics specific to MPLS and IPSec technologies, as well as metrics common to the two, like memory and CPU usage.

For MPLS VPN services, VPN Network Manager is preferably arranged to poll the performance of the VPN...some or all of the following metrics may be monitored: Jitter, Delay, Packet loss, Throughput, VRF availability. The VPN Network Manager may also monitor Quality-of-Service (QoS) metrics...management, policy and Class-of-Service (CoS) split per equipment or VPN.

For a given VRF, the VPN Network Manager preferably also monitors traffic shaping and congestion with

C

standards Such... provides statistics about the different Class-of-Services. This may be done, for example, per VRF, for reallocation of the workload, per CE, PE, P routers for creation of alternative links...to accommodate customized CoS, in particular those that are based on the DiffServ Standards.

IPSec MPLS VPN Services may be used in tunnel mode, which may allow the monitoring of metrics...verbs and attributes are preferably dependent on the provider and module in use (i.e.

MPLS or IPSec). Each module may be provided with a vocabulary description or dictionary

and each...embodiment, IIP VPN automates the end-to-end process of provisioning customer, service and management MPLS and IPsec VPNs regardless of the routing equipment in the network.

According to a preferred fields. It then deploys the configurations that activate the new MPLS and IPsec VPN service.

Preferably, the IIP VPN can preferably check the CE/PE configuration...modular IIP infrastructure. Some or all of the following elements may be used to enable MPLS and IPsec VPN seamless provisioning.

- The IIP VPN SDK

The IIP VPN SDK allows flexibility...provisioning, for example PE-CE (Provider Edge - Customer Edge) links and the QoS definition for MPLS VPN, the IPsec tunnel endpoints, the security and authentication methods. The flexibility is achieved by...in the configlet; it can be a change of the IP address or a new RT.

As in the previous scenario, the network engineer can modify the configlet template. The IIP VPN VEA dictionary contains four major functions.

1.5 - Tile Creation function, addresses the MPLS backbone (Traffic Engineering).

- The Provisioning function is usually divided into the following 3 steps but...and the provisioning dates. This reporting function preferably interfaces with the I-SEA Suite for MPLS and with Cisco SAA to report about the VPN service provisioning performance.

In addition to...may be solicited in the provisioning flow.

- A further element that may be used in MPLS and IPsec provisioning is the IB OSS Database. The OSS database may be used to...network elements

- Configuration inventory of existing VPNs

- IP Routing used

- Capacity: PE and CE interfaces, VRF capacity per PE.

- Location and topology information

- QoS

In the context of Layer 2 MPLS VPN, the Inventory Manager preferably collects the PE and the CE endpoints...the PE, CE, P router IP addresses, and the subnets in the network. Specifically for MPLS VPN, the IP Address Manager preferably also provides.

- the Route Distinguishers (RD) and Route Targets (RT) current assignments

- BGP Autonomous Systems Network elements

- The routing context of VPNs

- The VRF routing tables

For IPsec VPN, the IP Address Manager preferably provides.

- The subnets details for...a Configuration Manager, which may be used to create, add and edit the configlets per MPLS or IPsec domain. The Configuration Manager may also create

the RD and the RT and configure the VRFs. For IPsec VPN ...CPE tunnels-for.IPsec VPNs.

- PE and CE views or CE to CE views for MPLS VPNs

The GUI Command Line Interface is preferably accessible from the front-ends, for the...management links and services. A single I-SEA agent can be used to monitor multiple VRF on a PE. The switch from one VRF to another is preferably immediate and operation on the PE is not required. The L... The IIP VPN system is preferably implemented in conjunction with a Component Fault Manager for MPLS.

The Component Fault Manager preferably collects and manages all platform component alarms (for example, Micronuse... ..presentation module preferably provides a sophisticated user interface designed for Network Operators and Administrators (NOPs).

- MPLS Network Manager

The MPLS Network Manager, if required, can be used to monitor the traffic engineering of the VPNs.

One example of an MPLS VPN Provisioning Flow is described in the numbered steps below.

1. The network engineer creates...technology compliant and is preferably based on the Well-established IETF standard RFC 2547 Bis for MPLS-based VPN, and the following routing protocols: RIP v2, BGP, Multi-protocol BGP @BGP-MP... ..preferably provision IPsec-based VPN and automate the provisioning of IP-Sec tunnels encapsulation into MPLS VPN, C011fi(IlratiOn that is WC]] adapted to LAN-to-LAN VPN services. In addition... ..vendor-agnostic. In particular, because of its flexible template edition capabilities, f1P'VPN can activate MPLS VPN services on a large range of routing equipments, such as Cisco Systems, Juniper Networks and Riverstone Networks portfolio. This compliance makes UP VPN particularly suitable for use in MPLS VPN service provisioning in heterogeneous networks.

IIP VPN ...of QoS 25, features associated to PE-CE links.

- Class-of-Service (CoS).

In an MPLS environment, the CoS is enforced on both the PE and the CE. III? preferably uses...and RFC 791.

- Traffic Shaping and Congestion Management.

In order to complement the CoS capabilities, MPLS IIP VPN preferably handles the traffic shaping configurations by configuring the PE or the CE...As a further feature of a preferred embodiment, the IIP VPN can provision Layer 2 MPLS VPNs -following the IETF drafts 'Iaartini' and 'Koinpella'. Leveraging 'Koinpella' auto-discovery capabilities (BGP-MP...colour that has to be shared for connectivity

- The role (Hub or spoke)

The L2 MPLS VPN provisioning preferably follows the L3 MPLS VPN work-flow. IIP VPN

preferably provisions the logical circuit, the node colour and the... ..the CE. These 'connectivity' parameters preferably serve a similar purpose to LDP signalling in L3 MPLS VPN. The colour of the node and the role of the CE parameters preferably permit VPN topologies other than full-meshed.

The provisioning workflow is easily adapted to the L2 MPLS VPN provisioning requirements with the UP VPN SDK.

IPSec VPN

In the context of IPSec...of the IPSec VPN configlet edition.

Some of the benefits and advantages of the HP MPLS VPN system are outlined briefly below.

- End-to-end and Seamless VPN Provisioning from a single Front-End may be provided. TIP VPN preferably provisions MPLS and IPSec VPN on multi-technology access and edge from single customizable front-ends, b... ..same tool may be used for, for example, Frame-Relay, xDSL, Cable, Optical customers, for MPLS/BGP VPN, Layer 2 MPLS VPN and IPSec VPN.

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13/3K/2 (Item 2 from file: 349) [Links](#)

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00965479

SYSTEM AND METHOD FOR TOPOLOGY CONSTRAINED ROUTING POLICY
PROVISIONING

SYSTEME ET PROCEDE DE MISE EN PLACE DE REGLES D'ACHEMINEMENT
DANS UNE TOPOLOGIE LIMITEE

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Detailed Description:

...of newer technologies, such as Border Gateway Protocol 4 (BGP) and Multi-protocol Label Switching (MPLS), there is a need in the art for a system and method for routing policy...
...topology constrained routing policy provisioning in a Virtual Private Network (VPN), for example a BGP MPLS VPN. In the preferred embodiment, the present invention allows topology constrained routing policy ...is a unique aspect of Border Gateway Protocol 4 (BGP) and Multi-protocol Label Switching (MPLS) VPNs that the VPN connectivity is provided by a dedicated provider edge-customer edge (PECE...transmission technologies. In an embodiment, the underlying network 120 is a fiber optic network carrying MPLS and IP fori-natted data therebetween and, accordingly, the nodes may be implemented as optical...of packet-switched data transmissions between various nodes thereof.

In the preferred embodiment, the BGP MPLS VPN topology is governed by constrained distribution of routing information between sites using the concept... ...information are said to be topologically related. If an underlying network transport mechanism, such as MPLS, exists to

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securely carry packets between sites that are topologically related, then the sites...permitted combination of sites which may communicate securely over the VPN. A Virtual Routing Forwarding (VRF) table associated with a particular site S is populated only with routes that lead to... ...with site S. This prevents communication between sites which have no VPN in common. Every VRF is associated with one or more Route Target attributes. These are carried in BGP as...a Route Target T is distributed to every Provider Edge (PE) router that has a VRF associated with Route Target T. When such a route is received by a PE router VRF associated with site S. A particular VPN IN4, route is eligible for installation in a particular VRF if there is some Route Target which is both one of the route's Route Targets and one of the VRF's Import Target.

The topology of a BGP MPLS VPN is not immediately evident from the capabilities of the underlying transport network which may... ...BGP protocol behavior is desirable to properly determine the topology of the BGP VPN or MPLS VPN. It is desirable that the provisioning system be aware of the rules governing communication...following route information items is available from the route reflector - Route Distinguisher (RD), Route Target (RT), Site of Origin (SOO), VPNjD, Internet Protocol version 4 (IPv4) Prefix, NextHopInfo and/or the like. Preferably, the information items are denoted as a 6-tuple

IRD, RT, SOO, VPN-ID, IPv4 Prefix, NextHopInfo}

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However, ...information. The association between routes and RDs is preferably performed via filters or rules.

A RT is preferably used to control route distribution in a VPN. As discussed above, preferably there...routing information is shared among all the member sites of the mesh. Preferably, one import RT and one export RT is assigned to each member site. If there is no routing policy imposed on the routing distribution, the import RT and the export RT are the same, which is the default behavior set by MCS. The import RT and export RT may be modified so that routing policies may be applied efficiently.

In the hub-spoke direct inter-spoke communication. Preferably, the hub site is assigned one RT which is to be imported by the spokes and the spoke sites are assigned a different RT to

be imported by the hub. The association between routes and RTs is preferably performed... preventing a possible routing loop in the process.

For a site to accept routes with RT = rtl, the import rule is preferably specified as.

mask{O, 1, O@ O@ O@ 0 the RD field comparison would be set to pass. The RT mask is one, therefore the RT comparison is performed and only set to pass if Al = rtl, which in this case... preferably associate a particular route from the route reflectors with information items, such as RD, RT, SOO, VPN ID, IPv4 prefix, NextHopInfo, and/or the like. Remote export rules 306 are...a particular IPv4 route from PE-CE routing protocol with information items, such as RD, RT, SOO, VPN ID, 1Pv4 prefix, NextHopInfo, and/or the like. ...32 bit mask for IPv4, Prefix, 01 1}, Value action= reject I accept with {RD, RT, SOO, VPN-ID, = , NHJ.

However, the invention is not so limited and if desired the...The routing policy table has a plurality of columns, such as rule number, type, RD, RT, Site, VPN, 1Pv4, Next Hop, Action, Comment and/or the like. MCS 201 preferably automatically...rule I specifies that for any route coming in which matches any RD and any RT, but where the site of origin is the same site as the site being specified...particular Route Target, for example Tm(10 L 1), are imported. The Tin in the RT column stands for target mesh.

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Since site 3 is a hub for VPN component...a particular Route Target, for example Ts(100.2), are imported. The Ts in the RT column stands for target spoke.

As shown in FIGURE 4, since site 3 is a...In general, any member of a mesh VPN component may advertise routes using the same RT. Therefore, preferably the RT value for rule 2 of the import rules is the same as the RT value for rule 1 of the local export rules. However, in the case of a hub-spoke, two RT values are employed. The spokes advertise to the first RT, say Ts(y), but import from the second RT, say Th(x). On the other hand, the hub advertises to the second RT, say Th(x), but imports from the first RT, say Ts(y), which is how all spokes have advertised their routes. Thus, preferably the RT value for rule 3 of the import rules is different from the RT value of rule 2 of the local export rules.

Line 1 of rule number 1...

Claims:

...information item selected from the group consisting of a Route Distinguisher (RD), a Route Target (RT), a Site of Origin (SOO), a VPN ED, an Internet Protocol version 4 (IPv4) Prefix route information is denoted by a 6-tuple (RD, RT, SOO, VPN-ID, 1Pv4 Prefix, NH), wherein RD denotes a Route Distinguisher, RT denotes a Route Target, SOO denotes a Site of Origin, VPN-ID denotes a VPN...second routing rule being denoted as mask {0, 1, 0, 0, 0, 0), value {0, rt 1, 0, 0, 0, 0), action = permit.20. The method of claim 24, wherein automatically...bit mask for IPv4 Prefix, 0 1 1), Value action reject I accept with {RD, RT, SOO, VPN-ID, NH}.21

13/3K/3 (Item 3 from file: 349) [Links](#)

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00963915

SYSTEM AND METHOD OF VIRTUAL PRIVATE NETWORK ROUTE TARGET
FILTERING

SYSTEME ET PROCEDE DE FILTRAGE DE CIBLE DE ROUTE DE RESEAU PRIVE
VIRTUEL

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Detailed Description:

...Reexport filter, upon receiving this route, modifies the route to be {RD, RT, NHJ = JRD2, RT,,, CEI}, for example. One or more sites in extranet 30 may import routes with RTx...

